The other claims in this application are each dependent from the independent claims discussed above and are therefore believed patentable for the same reasons. Because each dependent claim is also deemed to define an additional aspect of the invention, however, the individual consideration of each on its own merits is respectfully

In view of the foregoing remarks, the entire application is believed to be in condition for allowance.

Applicants' undersigned attorney may be reached in our Costa Mesa,

California office at (714) 540-8700. All correspondence should continue to be directed to
our below-listed address.

Respectfully submitted,

Attorney for Applicants

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CA MAIN 63928 v 1

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requested.

possible, consistent with achieving adequate protection. A thinner coating reduces light absorption and minimizes manufacturing time and expense. Thus, while Zehender expresses a preference for a thicker protective layer of 200-300 Angstroms, at the same time it provides the motivation for one of ordinary skill in the art to focus on thickness levels at the bottom of Zehender's 'suitable' range- about 100 Angstroms- and to explore thickness levels below that range. The statement in Zehender that '[i]n general, the thickness of the protective layer should be not less than about [100 Angstroms]' falls far short of the kind of teaching that would discourage one of skill in the art from fabricating a protective layer of 100 Angstroms or less. [W]e are therefore 'not convinced that there was a sufficient teaching away in the art to overcome [the] strong case of obviousness' made out by 7ehender."). See MPEP § 2145, paragraph X.D., for a discussion of "teaching away" references.

2144.06 Art Recognized Equivalence for the Same Purpose

COMBINING EQUIVALENTS KNOWN FOR THE SAME PURPOSE

"It is prima facie obvious to combine two compositions each of which is taught by the prior art to be useful for the same purpose, in order to form a third composition to be used for the very same purpose.... |T|he idea of combining them flows logically from their having been individually taught in the prior art." In re Kerkhoven, 626 F.2d 846, 850, 205 USPQ 1069, 1072 (CCPA 1980) (citations omitted) (Claims to a process of preparing a spray-dried detergent by mixing together two conventional spray-dried detergents were held to be prima facie obvious.). See also In re Crockett, 279 F.2d 274, 126 USPQ 186 (CCPA 1960) Claims directed to a method and material for treating cast iron using a mixture comprising calcium carbide and magnesium oxide were held unpatentable over prior art disclosures that the aforementioned components individually promote the formation of a nodular structure in cast iron.); and Ex parte Quadranti, 25 USPQ2d 1071 (Bd. Pat. App. & Inter. 1992) (mixture of two known herbicides held prima facie obvious). But see In re Geiger, 815 F.2d 686, 2 USPQ2d 1276 (Fed. Cir. 1987) ("Based upon the prior art and the fact that each of the three components of the composition used in the claimed method is conventionally employed in the art for treating cooling water systems, the board held that it would have been prima facie obvious, within the meaning of 35 U.S.C. 103, to employ these components in combination for their known functions and to optimize the amount of each additive.... Appellant argues... hindsight reconstruction or at best,... 'obvious to try'.... We agree with appellant.").

SUBSTITUTING EQUIVALENTS KNOWN FOR THE SAME PURPOSE

In order to rely on equivalence as a rationale supporting an obviousness rejection, the equivalency must be recognized in the prior art, and cannot be based on applicant's disclosure or the mere fact that the components at issue are functional or mechanical equivalents. In re Ruff, 256 F.2d 590, 118 USPQ 340 (CCPA 1958) (The mere fact that components are claimed as members of a Markush group cannot be relied upon to establish the equivalency of these components. However, an applicant's expressed recognition of an art-recognized or obvious equivalent may be used to refute an argument that such equivalency does not exist.); In re Scott, 323 F.2d 1016, 139 USPQ 297 (CCPA 1963) (Claims were drawn to a hollow fiberglass shaft for archery and a process for the production thereof where the shaft differed from the prior art in the use of a paper tube as the core of the shaft as compared with the light wood or hardened foamed resin core of the prior art. The Board found the claimed invention would have been obvious, reasoning that the prior art foam core is the functional and mechanical equivalent of the claimed paper core. The court reversed, holding that components which are functionally or mechanically equivalent are not necessarily obvious in view of one another, and in this case, the use of a light wood or hardened foam resin core does not fairly suggest the use of a paper core.); Smith v. Hayashi, 209 USPQ 754 (Bd. of Pat. Inter. 1980) (The mere fact that phthalocyanine and selenium function as equivalent photoconductors in the claimed environment was not sufficient to establish that one would have been obvious over the other. However, there was evidence that both phthalocyanine and selenium were known photoconductors in the art of electrophotography. "This, in our view, presents strong evidence of obviousness in substituting one for the

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other in an electrophotographic environment as a photoconductor." 209 USPQ at 759.).

An express suggestion to substitute one equivalent component or process for another is not necessary to render such substitution obvious. *In re Fout*, 675 F.2d 297, 213 USPQ 532 (CCPA 1982).

2144.07 Art Recognized Suitability for an Intended Purpose

The selection of a known material based on its suitability for its intended use supported a prima facie obviousness determination in Sinclair & Carroll Co. v. Interchemical Corp., 325 U.S. 327, 65 USPQ 297 (1945) (Claims to a printing ink comprising a solvent having the vapor pressure characteristics of butyl carbitol so that the ink would not dry at room temperature but would dry quickly upon heating were held invalid over a reference teaching a printing ink made with a different solvent that was nonvolatile at room temperature but highly volatile when heated in view of an article which taught the desired boiling point and vapor pressure characteristics of a solvent for printing inks and a catalog teaching the boiling point and vapor pressure characteristics of butyl carbitol. "Reading a list and selecting a known compound to meet known requirements is no more ingenious than selecting the last piece to put in the last opening in a jig-saw puzzle." 325 U.S. at 335, 65 USPQ at 301.).

See also In re Leshin, 227 F.2d 197, 125 USPQ 416 (CCPA 1960) (selection of a known plastic to make a container of a type made of plastics prior to the invention was held to be obvious); Ryco, Inc. v. Ag-Bag Corp., 857 F.2d 1418, 8 USPQ2d 1323 (Fed. Cir. 1988) (Claimed agricultural bagging machine, which differed from a prior art machine only in that the brake means were hydraulically operated rather than mechanically operated, was held to be obvious over the prior art machine in view of references which disclosed hydraulic brakes for performing the same function, albeit in a different environment.).

2144.08 Obviousness of Species When Prior Art Teaches Genus

I. GUIDELINES FOR THE EXAMINATION OF CLAIMS DIRECTED TO SPECIES OF CHEMICAL COMPOSITIONS BASED

UPON A SINGLE PRIOR ART REFERENCE

These "Genus-Species Guidelines" are to assist Office personnel in the examination of applications which contain claims to species or a subgenus of chemical compositions for compliance with 35 U.S.C. 103 based upon a single prior art reference which discloses a genus encompassing the claimed species or subgenus but does not expressly disclose the particular claimed species or subgenus. Office personnel should attempt to find additional prior art to show that the differences between the prior art primary reference and the claimed invention as a whole would have been obvious. Where such additional prior art is not found, Office personnel should follow these guidelines to determine whether a single reference 35 U.S.C. 103 rejection would be appropriate. The guidelines are based on the Office's current understanding of the law and are believed to be fully consistent with binding precedent of the Supreme Court, the Federal Circuit, and the Federal Circuit's predecessor courts.

The analysis of the guidelines begins at the point during examination after a single prior art reference is found disclosing a genus encompassing the claimed species or subgenus. Before reaching this point, Office personnel should follow appropriate antecedent examination procedures. Accordingly, Office personnel should first analyze the claims as a whole in light of and consistent with the written description, considering all claim limitations. When evaluating the scope of a claim, every limitation in the claim must be considered. See, e.g., In re Ochiai, 71 F.3d 1565, 1572, 37 USPQ2d 1127, 1133 (Fed. Cir. 1995). However, the claimed invention may not be dissected into discrete elements to be analyzed in isolation, but must be considered as a whole. See, e.g., W.L. Gore & Assoc., Inc. v. Garlock, Inc., 721 F.2d 1540, 1548, 220 USPQ 303, 309 (Fed. Cir. 1983); Jones v. Hardy, 727 F.2d 1524, 1530, 220 USPQ 1021, 1026 (Fed. Cir. 1983) ("treating the advantage as the invention disregards the statutory requirement that the invention be viewed 'as a whole'"). Next, Office personnel should conduct a thorough search of the prior art and identify all relevant references. Both claimed and unclaimed aspects of the invention should be searched if there is a reasonable expectation that the unclaimed aspects may be later claimed. If the most relevant prior art

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that they were obviously meant to be statements of opinion, in the technical sense of the word, and not statements of fact.

The defendant's fifth point is not persuasive.

Finally, defendant takes the position that plaintiff is guilty of unclean hands with respect to his conduct regarding a certain patentee named Røder. The defendant contends that on January 3, 1939, Harlowe Hardinge stated under oath in the application which became patent 2,235,928 that "'* * * he verily believes himself to be the original, first and (2) sole inventor of the improvements in Apparatus and Method for Controlling Grinding Device described and claimed in the annexed specifications * * * * ' ", 14 whereas in fact Hardinge knew as early as July 8, 1938, that on May 18, 1936, one Carl Røder had filed a patent application in Great Britain for a sonic control for grinding and crushing The defendant advances several arguments, which we need not specifically list, all of which defendant urges tend to support its contention that Hardinge did not believe that his invention predated that of Røder.

The plaintiff raises a genuine issue of material fact on this point by the affidavit of Harlowe Hardinge, dated May 14, 1958, wherein under ¶ 8 at page 3 the affiant states:

"To the best of affiant's knowledge and recollection, based upon the records available to him, the first reduction to practice of a workable device was during the Winter of 1935-1936."

This date clearly predates that of the Røder patent and counsel for the defendant during the argument admitted that if that date were true then its motion must fail.15 The defendant, however, points to the fact that in answer to interroga-tories, Mr. Hardinge stated that the first reduction to practice was in October, 1936. We cannot resolve issues of credibility on a motion for summary judgment.

The defendant's motion is denied. An appropriate order will be entered.

45 C.C.P.A. (Patents) 1037

Court of Customs and Patent Appeals In re RUFF AND DUKESHIRE Appl. No. 6357 Decided June 24, 1958

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PATENTS

1. Patentability-Substitution of equivalents (§ 51.65)

Mere substitution of equivalent is not act of invention.

2. Patentability-Substitution of equivalents (§ 51.65)

Prior art teaching is in itself enough to support rejection where it teaches functional equivalency between claimed subject matter and what is in prior art.

3. Evidence-In general (§ 36.01)

When one, without knowing how it is going to affect his interest, makes a statement which he later attempts to deny when he finds it against his interest, he will not be believed unless he produces convincing proof of his later assertion.

4. Patentability-Substitution of equivalents (§ 51.65)

There is basic difference between (a) showing by applicant of what art knows to be equivalents or what means taken from art he can use indiscriminately without affecting his invention in carry-ing it out, and (b) showing that he found, as part of his discovery or inventive process, that certain things may be used to achieve same result; findings are his property, and he does not lose all of them just because of his showing when it turns out that others earlier discovered one or more of them.

5. Patentability-Substitution of equivalents (§ 51.65)

Claims should not be rejected solely on applicant's own showing of equivalency; it is only where equivalency is known to prior art or obvious to one of ordinary skill in the art that substitution of one equivalent for another is not invention; even though reference is not produced to show equivalence which is in fact art-recognized or obvious, applicant's own express recognition of it may be sufficient basis on which to refute his subsequent argument that equivalence does not exist.

6. Patentability-Substitution of equivalents (§ 51.65)

That two things are actually equivalents, in the sense that they both perform same function, is not enough to bring into play the rule that when one of them is in the prior art the use of the other is obvious and cannot give rise to patentable invention; applicants often invent, disclose, and attempt to claim more than turns out to be novel; they should not be penalized merely because of their own industry and the fullness of their disclosures.

7. Patentability—Substitution of equivalents (§ 51.65)

To rely on equivalence known only to applicant to establish obviousness is to assume that his disclosure is part of prior art; this is contrary to 35 U.S.C. 103, wherein test laid down is whether difference between what is claimed and the prior art would have been obvious to one of ordinary skill in the art at time invention was made.

8. Claims — Broad or narrow — Markush type—In general (§ 20.2051)

Patentability—Substitution of equivalents (§ 51.65)

Markush groups originally were regarded as exception to previously acceptable claim terminology and were rigidly restricted to groups of substances be-longing to recognized class; original rigid restrictions have been progressively relaxed to the point where it is no longer possible to indulge in presumption that members of Markush group are recognized by anyone to be equivalents except as they possess at least one property in common which is mainly responsible for their function in the claimed relationship; thus, it cannot be stated as a general rule that cancellation of anticipated member from Markush group does not avoid anticipation of remaining mem-bers; however, principle of rule applies if Markush group is made up of materials from art-recognized or scientific class of equivalent substances, but it cannot be applied as matter of course to everything called a Markush group.

9. Claims-Broad or narrow-Markush type-Chemical (§ 20.2053)

Patentability-Substitution of equivalents (§ 51.65)

"Markush group" has come to be applied to chemical formula-type claims which are unlike claims of early cases in the Markush line; thought to 706.03(y) of Manual of Patent Examining Procedure, wherein it is stated that where Markush expression is applied only to portion of chemical compound, the propriety of grouping does not depend on there being community of properties in members of Markush expression, the mere fact of members having been

¹⁴ Defendant's "Brief in Support of Motion Under Rule 56(b)", p. 24.
15 Transcript, May 19, 1958, p. 16.

45 C.C.P.A. (Patents) 1037

Court of Customs and Patent Appeals

In re RUFF AND DUKESHIRE

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4. Patentability—Substitution of equivalents (§ 51.65)

There is basic difference between (a) showing by applicant of what art knows to be equivalents or what means taken from art he can use indiscriminately without affecting his invention in carrying it out, and (b) showing that he found, as part of his discovery or inventive process, that certain things may be used to achieve same result; findings are his property, and he does not lose all of them just because of his showing when it turns out that others earlier discovered one or more of them.

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form same function, is not enough to bring into play the rule that when one of them is in the prior art the use of the other is obvious and cannot give rise to patentable invention; applicants often invent, disclose, and attempt to claim more than turns out to be novel; they should not be penalized merely because of their own industry and the fullness of their disclosures.

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To rely on equivalence known only to applicant to establish obviousness is to assume that his disclosure is part of prior art; this is contrary to 35 U.S.C. 103, wherein test laid down is whether difference between what is claimed and the prior art would have been obvious to one of ordinary skill in the art at time invention was made.

8. Claims — Broad or narrow — Markush type—In general (§ 20.2051)

Patentability—Substitution of equivalents (§ 51.65)

Markush groups originally were regarded as exception to previously acceptable claim terminology and were rigidly restricted to groups of substances belonging to recognized class; original rigid restrictions have been progressively relaxed to the point where it is no longer possible to indulge in presumption that members of Markush group are recognized by anyone to be equivalents except as they possess at least one property in common which is mainly responsible for their function in the claimed relationship; thus, it cannot be stated as a general rule that cancellation of anticipated member from Markush group does not avoid anticipation of remaining members; however, principle of rule applies if Markush group is made up of materials from art-recognized or scientific class of equivalent substances, but it cannot be applied as matter of course to everything called a Markush group.

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"Markush group" has come to be applied to chemical formula-type claims which are unlike claims of early cases in the Markush line; thus, under section 706.03(y) of Manual of Patent Examining Procedure, wherein it is stated that where Markush expression is applied only to portion of chemical compound, the propriety of grouping does not depend on there being community of properties in members of Markush expression, the mere fact of members having been

claimed together fails to show any equivalency other than functional equivalency discovered and first disclosed by applicant; this may not be relied on for rejection.

10. Patentability—Substitution of equivalents (§ 51.65)

Actual equivalence is not enough to justify refusal of patent on one member of group when another member is in prior art; equivalence must be disclosed in prior art or be obvious within terms of 35 U.S.C. 103.

Court of Customs and Patent Appeals — Issues determined — Exparte patent cases (§ 28.203)

Court cannot consider point not raised by examiner or Board.

Particular patents — Polyphosphate Composition

Ruff and Dukeshire, Polyphosphate Composition Containing Tarnish Inhibitor, claims 20, 23, 24, 29, 30, 32, 33, and 35 of application allowed.

Appeal from Board of Appeals of the Patent Office.

Application for patent of Edgar E. Ruff and Robert E. Dukeshire, Serial No. 172,776, filed July 8, 1950; Patent Office Division 64. From decision rejecting claims 20, 23, 24, 29, 30, 32, 33, and 35, applicants appeal. Reversed; Worley, Judge, concurring with opinion.

BRUMBAUGH, FREE, GRAVES & DONOHUE (EBEN M. GRAVES and JOHN R. JANES of counsel) all of New York, N.Y., for appellants.

appellants.
CLARENCE W. MOORE (J. SCHIMMEL of counsel) for Commissioner of Patents. American Patent Law Association, C. WILLARD HAYES, Washington, D. C., President, WILLIAM J. BARNES, New York, N. Y., Immediate Past President, NEAL A. WALDROP, Detroit, Mich., Chairman, Chemical Practice Committee, LELAND L. CHAPMAN, Cleveland, Ohio, Immediate Past Chairman, Chemical Practice Committee (PAUL L. TILLSON, Pittsburgh, Pa., and JOHN D. UPHAM and FREDERICK C. WELLINGTON, both of Dayton, Ohio, of counsel) amicus curiae.

Before Johnson, Chief Judge, and O'Connell, Worley, and Rich, Associate Judges.

RICH, Judge.

The appellants, Edgar E. Ruff and Robert E. Dukeshire, filed an application on July 8, 1950, entitled "Polyphosphate Composition Containing Tarnish Inhibitor," serial No. 172,776. On

1. 20.

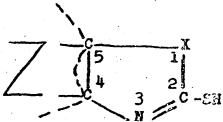
But to come

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this appeal it contains claims 20 through 35. Claims 21, 22, 25-28, 31 and 34 stood withdrawn from consideration under Patent Office Rule 142(b) and as to them the board dismissed the appeal, affirming the rejection of the others as "lacking invention over" references. Thus, no claim stands allowed.

Claim 20 is illustrative and reads:

20. A composition comprising a water-soluble polyphosphate which in aqueous solution tarnishes copper and copper and nickel alloys and a tarnish inhibitor in an amount to lessen the tarnishing action of the polyphosphate having the general formula



where X is selected from the group consisting of oxygen and sulfur and Z is a radical taken in sufficient number to satisfy the free valences of the 4and 5- ring carbon atoms and is selected from the group consisting of hydrogen, oxo oxygen, alkyl, aryl and saturated and unsaturated mono and polynuclear alicyclic and heterocyclic rings condensed therewith.

The references relied on are:

Schaeffer, 2,618,603, Nov. 18, 1952. Schaeffer, 2,618,605, Nov. 18, 1952.

The invention relates to synthetic detergent compositions such as are used for dishwashing and which contain polyphosphates as "builders." While the latter greatly improve the effectiveness of the composition as a detergent, they cause tarnishing of copper and copper and nickel alloys, of which many utensils are made. The invention is directed to the solution of this serious commercial problem by the incorporation in the composition of a complex organic compound which functions as a tarnish inhibitor.

Reducing the formula of claim 20, supra, to the verbal language of the art, the compounds it symbolizes are all 2-mercapto compounds. Where the "X" is oxygen the compounds are either 2-mercaptooxazoles or 2-mercaptooxazolines; where it is sulfur they are 2-mercaptothiazoles or 2-mercaptothiazolines. The "mercapto" aspect of the nomenclature results from the presence of the -SH radical.

The whole problem in this case arises because the application, as filed, disclosed and claimed in addition to the amino compounds corresponding to the fore-going mercapto compounds. This it did in words and also by formula, the lat-ter being the same as in claim 20 except that where it has "SH" there was a "Y" defined as follows: "Y is a radical selected from the group consisting of mercapto and amino radicals, i.e., SH, and NH, radicals," which will be reciprocal and NH, radicals," ognized as a "Markush" expression.

Appellants, by amendment, removed from their application all reference to the amino compounds and in doing so changed the class symbol Y in the formula to the specific radical SH. The record shows that this was done in view of ord shows that this was done in view of the Schaeffer patents with which an in-terference had been threatened but the filing dates of which appellants could not antedate. The amendment was made promptly upon their issuance and the examiner cited them on the next action. They have since been relied on as showing that the detergent composition containing the cancelled amino compounds was effectively in the "prior art" and there is no question about this being so.

The sole issue before us is whether the retained claims to the compositions containing the unanticipated mercapto compounds are patentable to appellants under the above circumstances. No facts being in dispute, the question is one of law.

Appellants say "The patentability of appellants' claims is not seriously disputed by the examiner and the Board of Appeals," but since they have both persisted in rejecting them we take this statement to mean either that patentable novelty of the claimed subject matter is

1 Appellants' brief before the Board of

Appeals states:

With the development of synthetic detergent compositions containing polyphosphates, such as tetrasodium pyrophosphates, such as tetrasodium pyrophosphate and pentasodium tripolyphosphate, there has arisen a tarnishing problem due to the action of the polyphosphates upon copper and nickel and copper alloys such as German silver. Warm solutions of synthetic detergent-polyphosphate compositions quickly turn these alloys a variety of shades from yellow to bluish black.

This problem was attacked by all concerned, and diligent (and, as it turned out, parallel) research has resulted in the invention of the tarnish inhibitors which are the subject of the Schaeffer patents, assigned to the Proctor & Gamble Company, and the tarnish inhibitors disclosed and claimed in the appellants' application, assigned to Lever Brothers Company.

not disputed or that the claims are conceded to be patentable if we reve the single ground of rejection relied which has to do with a peculiar asp of the issue of "invention" which iss since 1952, has been codified in 35 U.S 103 in terms of unobviousness. Stated another way, appellants insist that the have complied with all of the requiments of 35 U.S.C. 102 and 103 and therefore, to quote the former, "entit to a patent." There is no dispute ab compliance with section 102. As to s tion 103, however, in answer to app lants' insistence that it has been co plied with, the Board of Appeals has posed two "doctrines" which it says he been established by this court and which it is bound. Appellants reply the such a rejection is "non-statutory," when we take to mean contrary to the statu rather than one not authorized by the

The Grounds of Rejection

The examiner's position in rejecti all claims was essentially that appellar originally claimed the compositions ma with both the amino and the mercal compounds, that these two groups of co pounds are "equivalents," and that sir the amino compound compositions & in the prior art the mercapto compou compositions are not patentable to app lants because of this equivalency. The would be sound, if true, according the ancient negative rule of "inve [1] tion" that the mere substituti of an equivalent is not an act invention. Butler Bros. v. Pratt, 253 The examiner made the categorical stament that "The equivalency of the vaous members of the Markush group tarnish-inhibitors as originally disclos and claimed in the instant case is a fac

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Appellants, on appeal to the boar argued strenuously, as they do here, t point which they stated in their surmary thus:

There is no basis in the law for den ing claims where, as the sole bar for the finding of non-patentabilithe appellant's own disclosure is tak as an admission of equivalency, a such equivalency is not obvious to the skilled in the art, and is not shown suggested in the art.

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The Grounds of Rejection

The examiner's position in rejecting all claims was essentially that appellants originally claimed the compositions made with both the amino and the mercapto compounds, that these two groups of compounds are "equivalents," and that since the amino compound compositions are in the prior art the mercapto compound compositions are not patentable to appellants because of this equivalency. This would be sound, if true, according to the ancient negative rule of "inven[1] tion" that the mere substitution of an equivalent is not an act of invention. Butler Bros. v. Pratt, 253 F. 654, 656 (CCA-8), and cases there cited.

invention. Butler Bros. v. Pratt, 253 F. 654, 656 (CCA-8), and cases there cited. The examiner made the categorical statement that "The equivalency of the various members of the Markush group of tarnish-inhibitors as originally disclosed and claimed in the instant case is a fact." (Emphasis ours.) However, he cited no prior art patent, text or treatise but demanded "convincing evidence of unequivalency" as a prerequisite to patentability and called attention to the cases of In re Ayres, 23 C.C.P.A. (Patents) 1118, 83 F.2d 297, 29 USPQ 424, and In re Borcherdt et al., 39 C.C.P.A. (Patents) 1045, 197 F.2d 550, 94 USPQ 175.

Appellants, on appeal to the board, argued strenuously, as they do here, the point which they stated in their summary thus:

There is no basis in the law for denying claims where, as the sole basis for the finding of non-patentability, the appellant's own disclosure is taken as an admission of equivalency, and such equivalency is not obvious to those skilled in the art, and is not shown or suggested in the art.

They also cited to the board a line of cases, typified by Ex parte Shelton, (Bd. App.) 49 USPQ 36, holding that an applicant should not be rejected on his own showing of equivalency where such equivalency was not known to the art.

In affirming the examiner, the board, after stating that the rejection "is on the basis that the 2-aminothiazoles [disclosed by Schaeffer] are the full and admitted equivalents of the remaining group of inhibitors which appellants are now claiming," (emphasis ours) and after adverting to appellants' argument that the Schaeffer disclosure is insufficient to permit anyone to predict any utility for the claimed mercapto group of inhibitors, said,

All of the foregoing does not alter the fact that one of the groups originally claimed by appellants as tarnish inhibitors in a Markush claim (Emphasis ours) is, in fact, disclosed by Schaeffer. Under these circumstances the legal doctrines of In re Ayres and In re Borcherdt et al. immediately become applicable.

While throughout its opinion the board speaks repeatedly of the Borcherdt et al. "doctrine," we do not find that either the examiner or the appellants, in their brief before the board, made any reference to such a "doctrine." A review of this court's opinion in the Borcherdt et al. case discloses no apparent intent to state any new doctrine and our first enquiry, therefore, is as to just what is meant by the board in referring to this so-called doctrine on which it quite clearly predicated its decision, at least in part, and which seems to have been evolved in the Patent Office.

The first clue we have is the board's statement that the examiner had pointed out that "under the doctrine of In re Borcherdt et al., * * * appellants' own disclosure of equivalency alone may be sufficient to sustain this type of rejection." The next clue is that the board itself said that it did not "agree with appellants' interpretation of the Borcherdt et al. doctrine as requiring that the prior art establish the equivalency admitted in appellants' specification before the doctrine becomes applicable. * * The rejection would then simply be made on the basis of prior art showing the equivalency rather than appellants' original concession of equivalency." Looking at the fact situation before us, as to which there is no dispute, we see that the only supposed disclosure, concession or admission of equivalency is predicated on the fact of appellants having included in the same application a disclosure of both the amino and the mercap-

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to types of tarnish inhibitors and on having originally claimed both of these groups in generic claims. It seems to us that the board places perhaps its greatest emphasis on the fact that in those generic claims the amino and mercapto compounds were included in a "Markush" group, the "Y" in the formula and its defining clause. On this point, since In re Borcherdt et al. in no way involved any Markush group, we have also to consider the other "doctrine," that of In re Ayres, which the board specifically stated to be as follows:

The In re Ayres decision stands for the proposition that the mere cancellation of an anticipated member from the Markush group does not avoid anticipation of the remaining members of the group. In order for appellants to obtain a patent on the more restricted group here presented it would be necessary for them to show that its members possessed properties not shared by the larger group, Ex parte Watt, 1944 C.D. 5, 568 O.G. 193, 63 USPQ 163. Appellants have made no such showing.

In a petition asking for reconsideration by an augmented board, because of the importance of the matter, appellants said that the question in this case presented a direct challenge to the "doctrines" of the Borcherdt and Ayres cases, as the board had applied them, claiming that no decision of this court had based a finding of equivalency solely on an applicant's own disclosure, where the prior art did not show the equivalency and where it would not be obvious to those skilled in the art. In denying the petition the board said that the question was one it had ruled on many times and that it had consistently been upheld by this court. It felt itself bound by the precedents.

Before us the American Patent Law Association, through its Chemical Practice Committee, has filed an amicus brief and presented oral argument. It would appear that the "Borcherdt doctrine" has become a matter of grave concern to applicants for patents, particularly those in the chemical field, and that the decision in the instant case to an unusual extent concerns others than the appellants.

While there is some overlap as between what we shall hereinafter call the Ayres doctrine and the Borcherdt doctrine, and while the Borcherdt case cites, inter alia, the Ayres case, the board treated them as two doctrines, the Patent Office Solicitor presented his case in two corresponding separate parts and we shall do likewise, considering first the Borcherdt doctrine aspect of the case.

The Borcherdt Doctrine

As we have already suggested, the opinion in the Borcherdt case does not indicate that this court was conscious of having promulgated any new doctrine. The passage which apparently underlies the "doctrine" purports to state the rule of seven prior decisions. The board in its opinion herein, furthermore, made the statement that "The Borcherdt et al. doctrine was expounded by the Court of Customs and Patent Appeals on its own initiative in In re Bloomer, 37 C.C.P.A. (Patents) 770, 1950 C.D. 80, 633 O.G. 331, 178 F.2d 407, 84 USPQ 135 and has been consistently followed by that court in subsequent decisions." Four cases were then cited, one of which was prior to the Borcherdt case. The doctrine seems to have been misnamed and should, perhaps, have been called the "Bloomer doctrine." In any event it is clear it did not originate in the 1952 Borcherdt opinion. The Patent Office Solicitor, on the other hand, believes the doctrine, as he conceives it, originated in In re McKee, 22 C.C.P.A. (Patents) 1010, 75 F.2d 635, 24 USPQ 414, in 1935, and that there are in excess of 30 decisions in this court on the matter. But he includes

[2] among those cases those in which the prior art taught the functional equivalency between the claimed subject matter and what was in the prior art. As we understand the patent law, such a prior art teaching is in itself enough to support a rejection and in such cases there is neither room nor need for a Borcherdt doctrine of the kind the board relied on here. The whole burden of appellants complaint is that the board's application of this doctrine is such as to substitute it for a prior art showing, thus denying a patent because of what the applicant said or did in his own application regardless of the prior art, insofar as denying patentability because of equivalency with something in the prior art

It will be illuminating, perhaps, to contrast In re McKee with the present case. The invention there claimed was a method of slicing meat by first freezing it. The application defined "slicing" as including subdividing "in whatever manner may be employed, as for instance, by means of a knife, chopping tool, or saw." The thus defined term "slicing" was employed in the claims and the applicant himself had determined what it was to mean. The first thing to note is that the court fully agreed with the board that the claims, so written, were fully met by the references because the applicant had so broadened the meaning of "slicing" as to read on chopping and sawing, which the references showed.

When it was argued that claims spically limited to the use of a knife cutter should be allowed, this court 24 USPQ at 415,

The difficulty with this position is the appellant, by his definition o meaning of "slicing," * * * cons a knife, a chopping tool, and a as equivalents. If he so consider treats them, then he can clair patentable distinction between upon this application.

In other words, the applicant had it about as clear as possible that s as his invention was concerned, resided in the slicing of meat frozen, it made no difference—a fortiori not a patentable differe what kind of a cutter was used. Wh made an about face and tried to patentability on the use of the one c not disclosed in the art cited ag him, this court was quite naturally a pressed with the force of his arguthat "invention" was involved in difference between a knife and a choor a saw. If this be the Borcherdt trine, then long may it continue.

Now let us consider the present Appellants in their search for ta inhibitors made the discovery that different classes of complex or chemical compounds were effective that purpose, the aforesaid amino mercapto compounds. The chemists ing for their assignee's competitor, c ing on the same search, discovered effectiveness of the amino compositionst. Now, says the Patent Office, ly for the reason that you included groups in one application, and even deletion of the amino group in which lost the race to your rival Schaeffer cannot have a patent on the deter including the mercapto compound: cause they are not patentable. The not patentable because they are "equivalents" of the amino compound which you were not the first to it and all the proof we need of that is that in your application you said they were proful for the component they were useful for the same pur
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When it was argued that claims specifically limited to the use of a knife blade cutter should be allowed, this court said, 24 USPQ at 415,

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The difficulty with this position is that the appellant, by his definition of the meaning of "slicing," * * * considers a knife, a chopping tool, and a saw as equivalents. If he so considers and treats them, then he can claim no patentable distinction between them upon this application.

In other words, the applicant had made it about as clear as possible that so far as his invention was concerned, which resided in the slicing of meat while frozen, it made no difference—and a fortiori not a patentable difference—what kind of a cutter was used. When he made an about face and tried to base patentability on the use of the one cutter not disclosed in the art cited against him, this court was quite naturally unimpressed with the force of his argument that "invention" was involved in the difference between a knife and a chopper or a saw. If this be the Borcherdt doctrine, then long may it continue.

Now let us consider the present case. Appellants in their search for tarnish inhibitors made the discovery that two different classes of complex organic chemical compounds were effective for that purpose, the aforesaid amino and mercapto compounds. The chemists working for their assignee's competitor, carrying on the same search, discovered the effectiveness of the amino compounds first. Now, says the Patent Office, sole-ly for the reason that you included both groups in one application, and even after deletion of the amino group in which you lost the race to your rival Schaeffer, you cannot have a patent on the detergents including the mercapto compounds because they are not patentable. They are not patentable because they are the "equivalents" of the amino compounds which you were not the first to invent and all the proof we need of that fact is that in your application you said that they were useful for the same purpose.
"* * * the legal doctrine of * * * In re Borcherdt et al. immediately becomes applicable." Since you admitted such equivalency, there is no need, under the Borcherdt doctrine, to show that such equivalency was known to a soul. The Ex parte Shelton type of decision (49 USPQ 36), holding that rejection should not be based on an applicant's own dis-closure of equivalency, "must be con-sidered to have been overruled" by In re Borcherdt et al.

That the Borcherdt et al. case should have supplied the name of this doctrine

is strange, considering what was there involved and what was decided. The applicants claimed a process of preparing organic nitriles which involved reacting, under certain conditions in a certain medium, a chlorhydrocarbon and hydrogen cyanide (HCN). The opinion states that one reference, Hager, "describes and claims the identical process * * * with the exception that NaCN (sodium cyanide) is employed in the patent instead of HCN." Now that reference, and the other three references, all issued the same day to the assignee of the Borcherdt et al. application, the duPont Company. The issue raised by the references was "double patenting." This, in turn, depended on whether the claims on appeal were for a patentably distinct invention, and, as we have indicated, this rested on whether it was inventive or merely obvious to use HCN instead of NaCN. The application involved disclosed only HCN and contained nothing to indicate its equivalency in the process with NaCN; but another reference, Webb et al., owned by the same assignee, did, in both its description and by claiming the two in a Markush group. The examiner relied on that reference to show the equivalency and to negative invention. On the actual issue of patentable distinction which was before the court, the most significant statement is this, 94 USPQ at 177:

There does not seem to be any controversy that NaCN and HCN are equivalents in the claimed process. Counsel for appellants seems to be opposed only to the manner in which the examiner sought to establish such equivalency. (Emphasis ours.)

The court then went on to say that it felt that the assignee, having permitted the Webb et al. patent to issue, "may not now question the fact or form by which equivalency is established." In the next paragraph it repeated the thought thus:

* * * the Webb et al. patent has been properly used to support the fact of equivalency.

* * * In our opinion, the question of equivalency of hydrogen cyanide may not now properly be urged by appellants in view of the disclosure in claim 1 of the Webb et al. patent.

The court's ultimate conclusion was, of course, that there was no patentable distinction over the Hager patent claims but this decision certainly was not predicated on anything said or done by the applicants. The entire controversy over the use of the Webb et al. reference was whether it was "technically prior art." The court did not decide that point

but said that even if it was assumed not to be, duPont, its owner, prosecuting the application at bar, by taking out that patent saying HCN and NaCN were equivalents in the process, was not prop-

erly in a position to deny it.

[3] Considered for what it is, a problem of getting at a fact—equivalency or non-equivalency-the situation is a commonplace one in the law and runs all through the cases cited in In re Borcherdt et al. and the cases which, in turn, cite it. When a man, or a witness, or an applicant for a patent, without knowing how it is going to affect his interest, makes a statement which he later attempts to deny when he has found it is against his interest, he will not be believed unless he produces convincing proof of his later assertion.

[4] However, there is a basic difference between (a) a showing by an applicant for patent of what the art knows to be equivalents or what means taken from the art he can use indiscriminately without affecting his invention in carrying it out, and (b), a showing that he has found, as a part of his discovery or inventive process, that certain things may be used to achieve the same result. These findings are his property and he does not lose all of them just because of his showing when it turns out that others have earlier discovered one or more of them.

We have examined all of the cases relied on by the Board of Appeals as having followed the Borcherdt et al. case, which it considered to be binding on it, all of the cases cited in the Borcherdt et al. opinion in support of the dictum, which seems to be principally relied on to support the "doctrine," to the effect that an applicant's own disclosure of equivalency "may be sufficient for the rejec-tion of a claim specific to one equivalent where the other appears in the prior art, (emphasis added), and all of the additional cases cited by the Patent Office as bearing on the Borcherdt doctrine. We have found none which clearly supports the application of the doctrine which has been made in the present case. We are of the opinion that that application was in error.

The error which we find in this case is of a type which is constantly recurring, and on that ground possibly excusable, being the result of undue generaliza-tion from particular cases. The cases which gave rise to what has come to be called the "Borcherdt doctrine" are sound in result, well reasoned, and they appeal to comomn sense. They even support the Borcherdt case dictum that an applicant's disclosure alone may be sufficient for the rejection of a claim. But they do not support what has been done

here. The difficulty appears to reside in an indiscriminate use of the word "equivalents" and a failure to consider the type of fact the applicant has disclosed.

Two lines of cases have to be rec-

[5] The following Board of Appeals cases properly hold that an applicant's claims should not be rejected solely on his own showing of equivalency; that it is only where equivalency is known to the prior art or obvious to one of ordinary skill in the art that the substitution of one equivalent for another is not invention. Ex parte Shelton, 49 USPQ 36; Ex parte Scrutchfield, 66 USPQ 368; Ex parte Manor, 71 USPQ 271; Ex parte Fein et al., 81 USPQ 73; and Ex parte Ancrum, 91 USPQ 301. It will be found on examination that the equivalence which the applicants in these cases showed was not previously known to the

The following cases might be cited for the proposition that an applicant's own showing of equivalence may be used as the basis for rejecting a claim, and the list is but exemplary. In re McKee, supra, the meat slicing case; In re Hartung, 28 C.C.P.A. (Patents) 1364, 121 F.2d 529, 50 USPQ 151, disclosing a homologous series of catechols having 4 to 8 carbon atoms where the six carbon atom member was in the prior art; In re Lobdell, 35 C.C.P.A. (Patents) 1091, 167 F.2d 634, 77 USPQ 377, showing brazing as the known equivalent of silver soldering to hold the cutting tips in tool shanks; In re Switzer et al., 35 C.C.P.A. (Patents) 1013, 166 F.2d 827, 77 USPQ 156, carbon black and titanium dioxide as known equivalent inert fillers or pigments in a coating; In re Withington, 26 C.C.P.A. (Patents) 1290, 104 F.2d 192, 41 USPQ 742; intaglio as the equivalent of cameo brand markings on a wooden handle; In re Lindberg, 39 C.C.P.A. (Patents) 866, 194 F.2d 732, 93 USPO 20 (Patents) 866, 194 F.2d 732, 93 USPQ 23, a hydraulic drive for the agitadrive; In re Stewart, 42 C.C.P.A. (Patents) 937, 222 F.2d 747, 106 USPQ 115, removing a film with a swab or with a spray of air and water. Some of these cases were cited by the board to support the Borcherdt doctrine and others were cited in the Borcherdt case to support its dictum that the applicant's own disclosure of equivalence might be enough. There are many others, some more complex in their facts, but the principle running through these cases is basically the same in each. Even though a reference is not produced to show an equivalence which is in fact art-recognized or obvious, the applicant's own express recognition of it may be a sufficient basis on which

to refute his subsequent argument tha equivalence does not exist. We see noth ing wrong with the "Borcherdt doctrine if it is kept within this limitation. The danger in the "doctirne" is that it is such a handy means of relieving hard pressed examiners of the necessity for searching the prior art that they tend to apply it indiscriminately.

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apply it indiscriminately.

[6] That two things are actually equivalents, in the sense that they will both perform the same function, is not enough to bring into play the rule that when one of them is in the prior art the use of the other is obvious and cannot give rise to patentable invention. One need not think very hard to appreciate that the vast majority of patentable in-ventions perform old functions. In the bearing art, for example, we have progressed through wood blocks, bronze bushings, ball bearings, roller bearings, tapered roller bearings, needle bearings and sintered powdered metal impregnated with lubricant, to name a few. Today they are art-recognized equivalents. But if, in the course of this progress, ball and roller bearings had both been invented by one person and disclosed in one application, and the art had never heard of roller bearings before, on what theory would a patent be denied on the latter when it turned out that another was the first to invent the ball bearing? That the inventor said they would perform the same functions? This is not an imaginary problem for patent applicants more often than not invent and disclose and attempt to claim more than turns out to be novel when the art is searched. They should not be penalized merely because of their own industry and the fullness of their disclosures. So far as we have been able to find, this court has never made an intimation to the con-

[7] A safer guide for those who crave an easy answer to the issue of patentability than the now somewhat confused Borcherdt or Ayres doctrines is the patent statutes, for they were written to apply in all cases, as no single court decision ever is, dealing as it does with a specific set of facts which is rarely duplicated. This question of equivalence, as we said at the beginning, is a special aspect of what amounts to patentable "invention," assuming novelty to exist. The statutory provision on this subject is 35 U.S.C. 103 and the test there laid down is simply whether the difference between what is claimed and the prior art would have been obvious to one of ordinary skill in the art at the time the

invention was made.2

To rely on an equivalence known only to the applicant to establish obviousness is to assume that his disclosure is a part of the prior art. The mere statement of this proposition reveals its fallaciousness.

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Though the "equivalence" involved in Graver Tank & Mfg. Co., Inc. v. Linde Air Products Co., 339 U.S. 605, 85 USPQ 328, cited in the Borcherdt opinion, was a different aspect of equivalence than was involved in the latter case, namely what constitutes an infringement rather than what negatives patentability, certain words of the Supreme Court in the Graver case are as applicable here as they were there. The Court said, 85 USPQ at 330-331:

What constitutes equivalency must be determined against the context of the patent, the prior art, and the particular circumstances of the case. Equivalence, in the patent law, is not the prisoner of a formula and is not an absolute to be considered in a vacuum. * * * An important factor is whether persons reasonably skilled in the art would have known of the interchangeability of an ingredient not contained in the patent with one that was.

A finding of equivalence is a determination of fact. Proof can be made in any form; through the testimony of experts or others versed in the technology; by documents, including texts and treatises; and, of course, by the disclosure of the prior art. Like any other issue of fact, final determination requires a balancing of credibility, persuasiveness and weight of evidence. (Emphasis ours.)

"The Legal Doctrine of In re Ayres"
We have already quoted the board's view of what this doctrine is. In short, the proposition is that "cancellation of an anticipated member from the Markush group does not avoid anticipation of the remaining members." Applied to the facts of this case, what the examiner and the board contend is that the original generic claim, in which the formula appearing in claim 20, supra, had a "Y" where it now has -SH, with a definition of Y which included NH₂ as well as SH,

aids to the determination of "invention," came into existence there was no statutory provision on the subject to serve as a guide. One reason for the inclusion of section 103 in the Patent Act of 1952, which became effective only on January 1, 1953, was, as stated in the reviser's note, the hope that "an explicit statement in the statute may have some stabilizing effect." The instant case is a good example of the need for such stabilization and illustrates the desirability of looking for guidance to the fundamental law.

² It is significant that when the Ayres and Borcherdt doctrines, and many other

[8] Markush groups—so-called from the title of the case in which they were first permitted, Ex parte Markush, 1925 C.D. 126—were originally regarded as an exception to the previously acceptable claim terminology and were rigidly restricted to groups of substances belonging to some recognized class. Such was the rule at the time of the decision of In re Ayres, 23 C.C.P.A. (Patents) 1118, 29 USPQ 424, in 1936. If only equivalents recognized in scientific classification could be included in a Markush group, naturally the mere existence of such a group in an application tended to prove the equivalence of its members and when one of them was anticipated the group was therefore rendered un-patentable, in the absence of some convincing evidence of some degree of nonequivalency of one or more of the remaining members.

However, the original rigid, emergencyengendered restrictions have been progressively relaxed through the years to the point where it is no longer possible to indulge in a presumption that the members of a Markush group are recognized by anyone to be equivalents except as possess at least one property in common which is mainly responsible for their function in the claimed relation-ship." These last words are quoted from the 1953 revision of section 706.03 (y) of the Manual of Patent Examining Procedure (an official reference work prepared for the Patent Office examining corps). This revision was in effect prior to the rejection here under consideration.

In view of the existing situation in the Patent Office, it is not seen that the "Ayres doctrine," as the board has applied it, has much present validity. (We need not trouble to consider whether the In re Ayres case actually supports the "doctrine" as applied, a matter on which we have considerable doubt because the prior art seemed to show the equivalency. This court there refused to concede it did not.) True, if a Markush group happens to be made up of materials from an art-recognized or scientific class of equivalent substances, the principle of the rule would still apply but it can no longer be applied as a matter of course to everything called a Markush group.

[9] Moreover, the expression "Markush group" has come to be applied to formula-type claims like that here involved which are quite unlike the claims of the early cases in the Markush line. As early as 1951 the above section 706. 03(y) provided, as it still does.

Where a Markush expression is applied only to a portion of a chemical compound, the propriety of the grouping is determined by the considera-tion of the compound as a whole, and does not depend on there being a community of properties in the members of the Markush expression. (Emphasis

This would seem to apply to the grouping of appellants' original claim in which Y equalled amino or mercapto and, if so, the mere fact of their having been claimed together fails to show any equivalency other than the functional equivalency discovered and first disclosed by applicants. Reliance thereon for rejection involves precisely the same fallacy we have found in the case of the "Borcherdt doctrine" application—the applicant's teaching is assumed to be the prior art.

We therefore are constrained to con-clude that the board's rejection based on the application of "the legal doctrines of In re Ayres and In re Borcherdt et al." must be reversed as contrary to Sections 102 and 103 of the patent statutes which

we deem to be controlling.

[10] To sum it all up, actual equivalence is not enough to justify refusal of a patent on one member of a group when another member is in the prior art. The equivalence must be disclosed in the prior art or be obvious within the terms of Section 103.

We wish to make one final point. At the oral argument the Patent Office Solicitor gave us the impression that he was urging upon us the existence of an actual art-recognizable "structural" equivalence between the prior art amino compounds and the claimed mercapto compounds, over and above any implied admission of such equivalence due to inclusion in a Markush group or expressly admitted functional equivalence. This point was not urged in the Patent Office brief but that brief does advert to the presence in the Schaeffer patents of "cer-tain thiazoles and certain mercapto compounds," (emphasis ours) without any greater specificity as to the disclosure or amplification of the significance of this comment. For all we know there are ten thousand mercapto compounds.

[11] If we are correct in our understanding that we were asked to consider this point, we are compelled to state that we cannot do so for the reason that it 118 USPQ

was not raised either by the examine the board.

The decision of the Board of App is reversed.

Worley, Judge, concurring.

In agreeing with the result reachere it might be appropriate and of a possible service to the Patent Office patent bar for me to say, as the judesignated by the court to write the c ion in the Borcherdt case, that there no desire or intention there to cr a new doctrine. In so complex and i nical a field as patents, it is extre difficult to dispose of appeals with degree of rhetorical preciseness pos degree of friedrical products at in other fields of law without, at to some degree, indulging in dicture the language in the Borcherdt dec was capable of the interpretation p on it by the Patent Office, and I de say that it was not, it is regretted. ever, that decision, although fact different, was intended to be based o principle of the precedents cited the There was no intention to hold the disclosure by an applicant that to more materials were equivalent for purposes would necessarily justify th jection of a claim limited to one of materials merely on the basis of a ing that another of them was known the prior art.

45 C.C.P.A. (Patents) 1022

Court of Customs and Patent A

In re EKENSTAM

Appl. No. 6372 Decided June 24

PATENTS

1. Patentability - Anticipation ents-Foreign (§ 51.2215)

35 U.S.C. 102 relates to substa what is actually done in foreign co rather than to form or literal mean language used in connection ther it is difficult to believe that Congi tended anything which might har be called a "patent" in foreign co should ipso facto be a bar to app in United States regardless of h mote it might be from what is ge understood in United States as l patent; it may be that foreign bearing "patented" date is prim evidence that patenting took pithat date, but, where facts as t not of the expression "Margroup" has come to be applied to ula-type claims like that here into which are quite unlike the claims to early cases in the Markush line. arly as 1951 the above section 706.) provided, as it still does.

here a Markush expression is aped only to a portion of a chemical npound, the propriety of the group; is determined by the consideran of the compound as a whole, and as not depend on there being a commity of properties in the members of a Markush expression. (Emphasis rs.)

would seem to apply to the groupf appellants' original claim in which ualled amino or mercapto and, if so, nere fact of their having been claimogether fails to show any equivy other than the functional equivy discovered and first disclosed by cants. Reliance thereon for rejection ves precisely the same fallacy we found in the case of the "Borcherdt ine" application—the applicant's ing is assumed to be the prior art. therefore are constrained to con-

that the board's rejection based e application of "the legal doctrines re Ayres and In re Borcherdt et al." be reversed as contrary to Sections and 103 of the patent statutes which

eem to be controlling.

O] To sum it all up, actual equive is not enough to justify refusal patent on one member of a group another member is in the prior art. equivalence must be disclosed in the art or be obvious within the terms ection 103.

wish to make one final point. At oral argument the Patent Office itor gave us the impression that he urging upon us the existence of ctual art-recognizable "structural" alence between the prior art amino ounds and the claimed mercapto ounds, over and above any implied ssion of such equivalence due to sion in a Markush group or expressmitted functional equivalence. This was not urged in the Patent Office but that brief does advert to the nce in the Schaeffer patents of "certhiazoles and certain mercapto comds," (emphasis ours) without any er specificity as to the disclosure or ification of the significance of this ient. For all we know there are ten and mercapto compounds.

1) If we are correct in our underling that we were asked to consider point, we are compelled to state that annot do so for the reason that it was not raised either by the examiner or the board.

The decision of the Board of Appeals is reversed.

Worley, Judge, concurring.

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In agreeing with the result reached here it might be appropriate and of some possible service to the Patent Office and patent bar for me to say, as the judge designated by the court to write the opinion in the Borcherdt case, that there was no desire or intention there to create a new doctrine. In so complex and technical a field as patents, it is extremely difficult to dispose of appeals with the degree of rhetorical preciseness possible in other fields of law without, at least to some degree, indulging in dictum. If the language in the Borcherdt decision was capable of the interpretation placed on it by the Patent Office, and I do not say that it was not, it is regretted. However, that decision, although factually different, was intended to be based on the principle of the precedents cited therein. There was no intention to hold that a disclosure by an applicant that two or more materials were equivalent for his purposes would necessarily justify the rejection of a claim limited to one of such materials merely on the basis of a show-ing that another of them was known in the prior art.

45 C.C.P.A. (Patents) 1022

Court of Customs and Patent Appeals

In re EKENSTAM

Appl. No. 6372 Decided June 24, 1958

PATENTS

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1. Patentability — Anticipation — Patents—Foreign (§ 51.2215)

35 U.S.C. 102 relates to substance of what is actually done in foreign country, rather than to form or literal meaning of language used in connection therewith; it is difficult to believe that Congress intended anything which might happen to be called a "patent" in foreign countries should ipso facto be a bar to applicants in United States regardless of how remote it might be from what is generally understood in United States as being a patent; it may be that foreign patent bearing "patented" date is prima facie evidence that patenting took place on that date, but, where facts as to what

actually took place on alleged date of patenting are not in dispute, determination should be made on basis of those facts rather than on any presumption; foreign country's interpretation as to "patent granted" is not binding as to whether invention was patented there within meaning of statute.

2. Words and phrases (§ 70.)

Significance of "open" is commonly attached to "patent."

3. Patentability — Anticipation — Patents—In general (§ 51.2211)

In each instance in which prior patenting is made a statutory bar by 35 U.S.C., it is coupled with publication, by the use of expression "patented or described in a printed publication"; this would seem to indicate a connection between patenting and availability to public; it is reasonable to assume that prior patenting was made a bar because there would be no consideration for patent grant if invention was already available to public, it being assumed that patented invention would be available to public.

4. Patentability — Anticipation — Patents—Foreign (§ 51.2215)

Patentability — Anticipation — Prior knowledge, use or sale (§ 51.223)

There is no logical reason why granting of secret patent abroad should be a bar to patenting in United States; even widespread prior knowledge of invention abroad does not alone bar grant of patent in United States; it is not reasonable to suppose that Congress intended to give greater effect to secret patenting abroad than to public knowledge there.

5. Applications for patent—Secrecy of application (§ 15.7)

Patentability — Anticipation — Patents—Foreign (§ 51.2215)

"Patented" in 35 U.S.C. 102(a) and (b) is limited to patents which are available to public; since Belgian patent was not so available prior to its "brevet publie" date, it did not become patent until that date, within meaning of statute, and is not available as reference as of its "brevet octroyé" date; it is not significant that patentee could have obtained as many copies of application and grant as he desired during period between grant ("brevet octroyé") and opening for public inspection ("brevet publié"); any inventor has option of disclosing invention to public at any time; there is nothing to show that copies of papers were ordered or that knowledge of invention was imparted to public prior of brevet publié" date; for all practical purposes, patent was secret patent until "brevet publié" date.